CORRECTED VERSION

Rec'd PCT/PTO 29 JUN 2

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date 15 July 2004 (15.07.2004)

PCT

(10) International Publication Number WO 2004/059192 A1

(51) International Patent Classification7:

F16H 7/12

(21) International Application Number:

PCT/EP2003/051112

(22) International Filing Date:

29 December 2003 (29.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: TO2002A001133

30 December 2002 (30.12.2002) I'

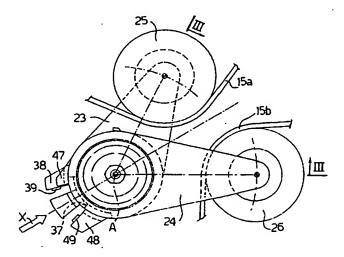
- (71) Applicant (for all designated States except US): DAYCO EUROPE S.R.L. [IT/IT]; Zona Industriale Vallecupa, I-64010 COLONNELLA (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): LOLLI, Sergio [IT/IT]; Via San Giuliano, 5, I-63100 ASCOLI PICENO (IT). D'AMICANTONIO, Luca [IT/IT]; c/o DAYCO

EUROPE S.r.l., Stradale Torino, 603, I-10090 SAN BERNARDO DI IVREA (IT).

- (74) Agents: JORIO, Paolo et al.; STUDIO TORTA S.r.l., Via Viotti, 9, I-10121 TORINO (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: A TWO-ARM BELT TENSIONER FOR A BELT DRIVE



(57) Abstract: A belt tensioner (20) for a belt drive (1) is designed to connect an engine shaft (6) of an internal-combustion engine (2) to a reversible electric machine (4) which has the function of starting motor and current generator; the belt tensioner (20) comprises a fixed part (21) and a pair of arms (23, 24), hinged on a common pin (31) carried by the fixed part (21) and provided with respective idle pulleys (25, 26), and a spring (27), which forces the two arms (23, 24) towards one another so as to load the pulleys (25, 26) elastically against respective branches (15a, 15b) of the belt (15). The two arms (23, 24) of the belt tensioner are provided with respective first arrest elements (37, 47), which are designed to interact with the fixed portion (21) to define respective positions of arrest of the arms themselves under the action of the spring (27), and respective second arrest elements (38, 48), which are designed to interact with the fixed portion (21) to define respective positions of end-of travel of the arms (23, 24) under the action of the pull of the belt (15).



004/050107 A1

Published:

with international search report

(48) Date of publication of this corrected version:
17 March 2005

(15) Information about Correction: see PCT Gazette No. 11/2005 of 17 March 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.